



Information Theory and Biology: Seeking General Principles

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Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

In this call for a Special Issue, we invite the community to submit original research or review articles on the use of information theoretical methods for investigating, discovering, or synthesizing general principles that increase our understanding of biological phenomena. The presentation of experimental results for which subsequent analysis can motivate the development of the field of information theory and the dialogue among disciplines is also encouraged. Information theoretical approaches to Covid-19 related questions will also be considered.

- Information theory
- Entropy
- Stochastic processes
- Robustness, heterogeneity and adaptation in biological processes
- Developmental biology
- Carcinogenesis
- Evolution
- Gene networks
- Signaling pathways
- Biological networks





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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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